

AMENDMENTS TO THE CLAIMS

1. (Previously Presented) A painting apparatus comprising:  
an outer arm adapted for use with a painting robot, said arm having a housing formed of a non-conductive material;  
a color changer mounted on an external surface of said housing, said color changer adapted to be connected to a paint supply;  
a paint canister mounted inside said housing; and  
a paint transfer line continuously connecting said color changer to an interior of said paint canister for transferring paint from said color changer to said interior of said paint canister and providing electrostatic isolation of said paint canister from said color changer during use of said paint canister for painting.
2. (Previously Presented) The apparatus according to Claim 1 wherein said housing is formed of a polyamide material.
3. (Original) The apparatus according to Claim 1 wherein said paint transfer line is formed of an electrically insulating material.
4. (Original) The apparatus according to Claim 1 wherein said paint transfer line is formed of an FEP material.
5. (Previously Presented) The apparatus according to Claim 1 wherein said paint canister is positioned adjacent a side wall of said housing opposite said color changer.
6. (Original) The apparatus according to Claim 1 including a canister manifold connected between said paint canister and said paint transfer line.
7. (Original) The apparatus according to Claim 1 including a wrist attached to said arm, said wrist having a wrist housing formed of an electrically insulating material and said wrist being adapted to mount a paint applicator.

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8. (Original) The apparatus according to Claim 1 including a piston ram mounted in said housing and being connected to said paint canister for controlling a flow of the paint into and out of said paint canister.

9. (Original) The apparatus according to Claim 8 wherein said piston ram includes a piston releasably attached to a ram body by a ram locking key.

10. (Original) The apparatus according to Claim 8 including a canister quick disconnect for releasably attaching said paint canister to said piston ram.

11. (Original) The apparatus according to Claim 10 wherein said canister quick disconnect includes convex locking means on said piston ram releasably engaged with concave locking means on said paint canister.

12. (Original) The apparatus according to Claim 8 wherein said piston ram includes a ball screw and cooperating ball screw nut and including a drive motor connected to said ball screw for actuating said piston ram.

Claims 13-21 (Cancelled)

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22. (Currently Amended) A painting apparatus comprising:

an outer arm for a painting robot, said arm having a housing formed of a non-conductive material;

a color changer outside said housing, said color changer adapted to be connected to a paint supply;

a paint canister mounted inside said housing and sized for storing an amount of paint sufficient for a painting operation; and

a paint transfer line continuously connecting said color changer to an interior of said paint canister for transferring paint from said color changer to said interior of said paint canister and providing electrostatic isolation of said paint canister from said color changer during use of said paint canister for painting with electrically conductive paint.

23. (Previously Presented) The apparatus according to Claim 22 wherein said housing is formed of a polyamide material.

24. (Previously Presented) The apparatus according to Claim 22 wherein said paint transfer line is formed of an electrically insulating material.

25. (Previously Presented) The apparatus according to Claim 22 including a pig removably inserted in said paint transfer line and being slidably moveable in said paint transfer line.

26. (Previously Presented) A painting apparatus comprising:

an arm for a painting robot, said arm having a housing formed of a non-conductive material and an outer end; and

a wrist having one end attached to said outer end of said arm, structural components of said wrist being formed of a non-conductive material and said wrist having an opposite end for mounting a paint applicator.

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27. (Previously Presented) The apparatus according to Claim 26 including a paint canister mounted inside said housing.

28. (Previously Presented) The apparatus according to Claim 27 including a paint transfer line continuously connecting an interior of said paint canister to a color changer for transferring paint from said color changer to said interior of said paint canister and providing electrostatic isolation of said paint canister from said color changer during use of said paint canister for painting.

29. (Previously Presented) The apparatus according to Claim 28 wherein said color changer is mounted on an external surface of said housing.

30. (Previously Presented) The apparatus according to Claim 28 wherein said color changer is mounted outside said housing.

31. (Previously Presented) The apparatus according to Claim 28 including a pig removably inserted in said paint transfer line and being slidingly moveable in said paint transfer line.

32. (Currently Amended) A painting apparatus comprising:

an outer arm for a painting robot formed of a non-conductive material;

a paint canister mounted on said arm and sized for storing an amount of paint sufficient for a painting operation;

a color changer adapted to be mounted on the painting robot and adapted to be connected to a paint supply; and

a paint transfer line continuously connecting said color changer to an interior of said paint canister for transferring paint from said color changer to said interior of said paint canister and providing electrostatic isolation of said paint canister from said color changer during use of said paint canister for painting with electrically conductive paint.

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33. (Previously Presented) The apparatus according to Claim 32 wherein said arm is formed of a polyamide material.

34. (Previously Presented) The apparatus according to Claim 32 wherein said paint transfer line is formed of an electrically insulating material.

35. (Previously Presented) The apparatus according to Claim 32 including a pig removably inserted in said paint transfer line and being slidingly moveable in said paint transfer line.

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